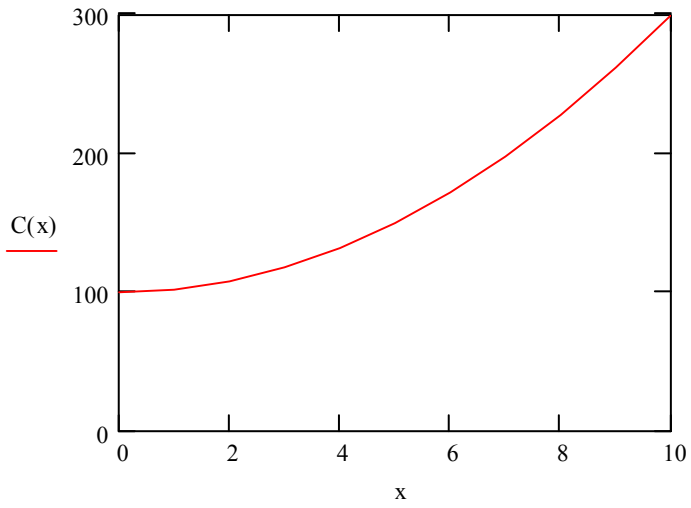
# Progressive Costs

$x := 0 .. 10$ Quantity of goods produced

$C_v(x) := 2x^2$ Variable costs

$C_f := 100$ Fixed costs

$C(x) := C_f + C_v(x)$ Total costs




| x = | C(x) = |
|---|---|
| 0 | 100.00 |
| 1 | 102.00 |
| 2 | 108.00 |
| 3 | 118.00 |
| 4 | 132.00 |
| 5 | 150.00 |
| 6 | 172.00 |
| 7 | 198.00 |
| 8 | 228.00 |
| 9 | 262.00 |
| 10 | 300.00 |

$x := 1 .. 10$

$c_v(x) := \frac{C_v(x)}{x}$ Variable cost per unit

$c_f(x) := \frac{C_f}{x}$ Fixed cost per unit

$c(x) := \frac{C(x)}{x}$ Total cost per unit

| x = | $c_v(x)$ = | $c_f(x)$ = | c(x) = |
|---|---|---|---|
| 1 | 2.00 | 100.00 | 102.00 |
| 2 | 4.00 | 50.00 | 54.00 |
| 3 | 6.00 | 33.33 | 39.33 |
| 4 | 8.00 | 25.00 | 33.00 |
| 5 | 10.00 | 20.00 | 30.00 |
| 6 | 12.00 | 16.67 | 28.67 |
| 7 | 14.00 | 14.29 | 28.29 |
| 8 | 16.00 | 12.50 | 28.50 |
| 9 | 18.00 | 11.11 | 29.11 |
| 10 | 20.00 | 10.00 | 30.00 |